

ISSN 1672-2043  
CODEN NHKXA7

# 农业环境科学学报

JOURNAL OF AGRO-ENVIRONMENT SCIENCE

2012

第31卷 第6期  
Vol.31 No.6

ISSN 1672-2043



9 771672 204102

万方数据

农业部环境保护科研监测所  
中国农业生态环境保护协会

主办

## 目 次

**污染生态**

- BDE209 胁迫对翡翠贻贝(*Perna viridis*)SOD、MDA 和 GSH 的影响 ..... 黄志斐 张 詹 马胜伟 王贺威 巩秀玉 蔡文贵 陈海刚 贾晓平(1053)  
除草剂精克草星胁迫对牛蛙心脏功能和血红细胞的影响 ..... 南旭阳 戴灵鹏 贺超燕(1060)  
用关联度分析硒镧复合作用下巴西蘑菇氨基酸含量与镉含量的关系 ..... 江枝和 翁伯琦 雷锦桂 肖淑霞 王义祥(1066)  
雷公藤生物碱制品对非靶标生物的毒性研究 ..... 王李斌 李 婷 何 军 冯俊涛 马志卿 张 兴(1070)  
甲基硫菌灵及其代谢物在不同种植模式黄瓜和土壤中的残留 ..... 张志勇 单炜力 简 秋 龚 勇 宋稳成 刘贤金(1077)

**土壤环境**

- 适于轻度 Cd、As 污染土壤种植的水稻品种筛选 ..... 叶新新 周艳丽 孙 波(1082)  
干旱区绿洲土壤 Cd/Pb 复合污染下重金属形态转化与生物有效性 ..... 周 婷 南忠仁 王胜利 武文飞 廖 琴 王 宁(1089)  
广东韶关主要矿区周边农田土壤铅、镉的形态分布及生物有效性研究 ..... 王其枫 王富华 孙芳芳 王 旭 文 典 刘香香 赵 凯(1097)  
有机无机配施对生菜生长及其 Cd Pb 含量的影响 ..... 唐明灯 艾绍英 罗英健 李盟军 王艳红 曾招兵 姚建武(1104)  
稻草生物质炭对 3 种可变电荷土壤吸附 Cd(Ⅱ)的影响 ..... 蒋田雨 姜 军 徐仁扣 周立祥(1111)  
不同温度下镉在典型农田土壤中的吸附动力学特征 ..... 王金贵 吕家珑 张瑞龙 代允超 赵 聰(1118)  
不同洗涤蜂窝煤灰渣对污染土壤中铅的稳定作用研究 ..... 李立平 席 欢 邢维芹 向国强 张 科 胡昌乾(1124)  
辽宁省设施土壤重金属 Cd、Ni、As 有效态含量及其影响因素的研究 ..... 刘 洋 张玉龙 张玉玲 虞 娜 王 静 邹洪涛(1131)  
黑麦草(*Lolium perenne*)根际细菌多样性对 Ni 污染沉积物修复效果的响应 ..... 吴 卿 赵彩云 李东梅 王 美 李思聪(1135)  
土霉素在土壤中降解特性研究 ..... 孙春晓 宋文华 高敏苓 李 双 宫玉涛(1141)  
联苯菊酯降解菌的筛选、鉴定及降解特性研究 ..... 刘婷婷 董昆明 缪 莉 周晓见 斯翠丽 姜 薇 封 克(1147)  
生物复混肥对土壤微生物功能多样性及土壤酶活性的影响 ..... 邵 丽 谷 洁 张社奇 高 华 秦清军(1153)  
转菜豆几丁质酶基因和烟草葡聚糖酶基因抗病棉花的种植对棉花根际土壤酶活性的影响 ..... 吴名付 祝建波 王爱英(1160)  
淹水培养过程中水稻土地杆菌科微生物群落结构变化特征 ..... 拓晓骅 朱 辉 王保莉 曲 东(1165)  
黄土丘陵区几种退耕还林地土壤固存碳氮效应 ..... 韩新辉 杨改河 佟小刚 冯永忠 任广鑫 赵发珠 杜约翰(1172)

**水体环境**

- 水库温排水增温模拟及其对富营养化影响分析 ..... 徐梦佳 于 磊 赵彦伟 梁振明(1180)  
14 条环太湖河流水质与茭草、水花生氮磷含量 ..... 王 强 卢少勇 黄国忠 金相灿 焦 伟 许梦爽 甘 树 孙高敏(1189)

- 氧调控下人工湿地微生物群落结构变化研究 ..... 陶 敏 贺 锋 徐 洪 周巧红 徐 栋 张丽萍 吴振斌(1195)  
河流渗滤系统中 BTEX 的吸附行为实验模拟研究 ..... 马 燕 李志萍 梁 河 刘明珠(1203)  
大沽河湿地表层沉积物重金属分布特征及污染评价 ..... 徐 勇 马绍赛 陈聚法 赵 俊 夏 斌 崔正国(1209)  
白洋淀沉积物中溶解有机质荧光特性及其与铜的相互作用 ..... 赵 萱 成杰民(1217)  
有机氯农药污染场地地下水抽水试验 ..... 陈莉娜 藤加泉 尹 勇 蒋 鹏 张 华 胡林潮(1223)  
固体碳源填充床反应器反硝化性能的研究 ..... 李 军 徐 影 王秀玲 仇天雷 韩梅琳 毛 哲 王旭明(1230)

### 水产环境

- 混养鱼塘水中磷含量及表层沉积物中磷赋存形态的初步探究 ..... 何 琳 江 敏 戴习林 施顺昌 李世凯(1236)

### 废弃物处理及资源化

- 蚯蚓堆肥处理剩余污泥混合有机垃圾的效率研究 ..... 陈大志 刘顺会 林秋奇 吴 艳(1244)

### 环境影响评价

- 辽宁省育肥猪生产环境影响的生命周期评价 ..... 刘鸣达 赵 妍 刘显军 王耀晶(1250)

### 研究快报

- 双酚 A 对大豆幼苗叶绿素荧光参数的影响 ..... 李 曼 王丽红 周 青(1256)

# JOURNAL OF AGRO-ENVIRONMENT SCIENCE

(Monthly · Started in 1982)

Vol.31 No.6 Jun. 20, 2012

## CONTENTS

- Effects of BDE209 on the SOD, MDA, GSH of *Perna viridis* ..... HUANG Zhi-fei,  
ZHANG Zhe, MA Sheng-wei, WANG He-wei, GONG Xiu-yu, CAI Wen-gui, CHEN Hai-gang, JIA Xiao-ping(1053)
- Effect of Herbicide(Jingkecaoxing) Stress on the Heart Function and Erythrocyte of *Rana catesbeiana*  
..... NAN Xu-yang, DAI Ling-peng, HE Chao-yan(1060)
- Grey Relational Grade Analysis on the Relationship of Amino Acid Contents and Cd Content in *Agaricus brasiliensis* Under Interaction  
of Selenium and Lanthanum ..... JIANG Zhi-he, WENG Bo-qi, LEI Jin-gui, XIAO Shu-xia, WANG Yi-xiang(1066)
- Toxicity of Alkaloid-based Products from *Tripterygium wilfordii* on Non-target Organisms  
..... WANG Li-bin, LI Ting, HE Jun, FENG Jun-tao, MA Zhi-qing, ZHANG Xing(1070)
- Dissipation and Residue of Thiophanate-Methyl and Its Metabolite in Cucumber and Soil Under Open Land and Greenhouse Conditions  
..... ZHANG Zhi-yong, SHAN Wei-li, JIAN Qiu, GONG Yong, SONG Wen-cheng, LIU Xian-jin(1077)
- Screening of Suitable Rice Cultivars for the Adaptation to Lightly Contaminated Soil with Cd and As  
..... YE Xin-xin, ZHOU Yan-li, SUN Bo(1082)
- Speciation and Bioavailability of Heavy Metals Under Combined Pollution of Cadmium and Lead in Arid Oasis Soils  
..... ZHOU Ting, NAN Zhong-ren, WANG Sheng-li, WU Wen-fei, LIAO Qin, WANG Ning(1089)
- Fractionation and Bioavailability of Pb and Cd in Agricultural Soils Around Mining Area in Shaoguan Guangdong Province, China  
..... WANG Qi-feng, WANG Fu-hua, SUN Fang-fang, WANG Xu, WEN Dian, LIU Xiang-xiang, ZHAO Kai(1097)
- Effects of Organic Manures on the Growth, Cd and Pb Concentrations of Lettuce Plant Based on the Same Nitrogen Level  
..... TANG Ming-deng, AI Shao-ying, LUO Ying-jian, LI Meng-jun, WANG Yan-hong, ZENG Zhao-bing, YAO Jian-wu(1104)
- Effect of Biochar from Rice Straw on Adsorption of Cd( II ) by Variable Charge Soils  
..... JIANG Tian-yu, JIANG Jun, XU Ren-kou, ZHOU Li-xiang(1111)
- Effects of Temperature on the Adsorption Kinetics of Cadmium in Typical Agricultural Soils  
..... WANG Jin-gui, LÜ Jia-long, ZHANG Rui-long, DAI Yun-chao, ZHAO Cong(1118)
- Immobilization of Lead in Soil with Washed Honeycomb Briquette Combustion Residue  
..... LI Li-ping, XI Huan, XING Wei-qin, XIANG Guo-qiang, ZHANG Ke, HU Chang-qian(1124)
- Soil Available Cd, Ni and As Concentrations and Its Influencing Factors in the Protected Fields of Liaoning Province, China  
..... LIU Yang, ZHANG Yu-long, ZHANG Yu-ling, YU Na, WANG Jing, ZOU Hong-tao(1131)
- Response of Bacteria Diversity of Ryegrass(*Lolium perenne*) Rhizosphere to Phytoremediation Effect of Ni Polluted Sediment  
..... WU Qing, ZHAO Cai-yun, LI Dong-mei, WANG Mei, LI Si-cong(1135)
- Degradation Properties of Oxytetracycline in Soil  
..... SUN Chun-xiao, SONG Wen-hua, GAO Min-ling, LI Shuang, GONG Yu-tao(1141)
- Isolation, Identification and Biodegradation Characteristics of a Bacterial Strain able to Degrade Bifenthrin  
..... LIU Ting-ting, DONG Kun-ming, MIAO Li, ZHOU Xiao-jian, JIN Cui-li, JIANG Wei, FENG Ke(1147)

Effects of Bio-compound Fertilizer on Corn Soil Microbial Community and Enzyme Activities	SHAO Li, GU Jie, ZHANG She-qi, GAO Hua, QIN Qing-jun(1153)
Effect of Planting Disease-resistant Transgenic Cotton on Rhizosphere Soil Enzymatic Activities	WU Ming-fu, ZHU Jian-bo, WANG Ai-ying(1160)
Changing Characteristics of <i>Geobacteraceae</i> Community Structure in Paddy Soil During Flooding Incubation	TUO Xiao-hua, ZHU Hui, WANG Bao-li, QU Dong(1165)
Soil Carbon and Nitrogen Sequestration Under Several Different Forest Lands Converted by Farmland in Loess Hilly Area	HAN Xin-hui, YANG Gai-he, TONG Xiao-gang, FENG Yong-zhong, REN Guang-xin, ZHAO Fa-zhu, DU Yue-han(1172)
The Simulation of Reservoir Water Warming by Thermal Discharge and Research on Reservoir Eutrophication	XU Meng-jia, YU Lei, ZHAO Yan-wei, LIANG Zhen-ming(1180)
Nitrogen and Phosphate Contents in <i>Zizania caduciflora</i> and <i>A.philoxeroides</i> (Mart.) Griseb and Water Qualities of 14 Rivers Around Taihu Lake, China	WANG Qiang, LU Shao-yong, HUANG Guo-zhong, JIN Xiang-can, JIAO Wei, XU Meng-shuang, GAN Shu, SUN Gao-min(1189)
Changes in Microbial Community Structure in Constructed Wetland Under Aeration Condition	TAO Min, HE Feng, XU Hong, ZHOU Qiao-hong, XU Dong, ZHANG Li-ping, WU Zhen-bin(1195)
Experimental Simulation Study of Adsorption of BTEX in the River Filtration System	MA Yan, LI Zhi-ping, LIANG Ke, LIU Ming-zhu(1203)
Distribution Characteristics and Pollution Assessment of Heavy Metals in Surface Sediments in Dagu River Wetland	XU Yong, MA Shao-sai, CHEN Ju-fa, ZHAO Jun, XIA Bin, CUI Zheng-guo(1209)
Fluorescence Characteristics of Dissolved Organic Matter and Interaction Between Cu( II ) and DOM in Sediments of Baiyangdian Lake, China	ZHAO Xuan, CHENG Jie-min(1217)
Conduction of a Pumping Test in a Typical Organo-chlorine Pesticide Contaminated Site	CHEN Li-Na, TENG Jia-quan, YIN Yong, JIANG Peng, ZHANG Hua, , HU Lin-chao(1223)
Denitrification Performance of a Packed Bed Reactor Using Solid Carbon Source	LI Jun, XU Ying, WANG Xiu-ling, QIU Tian-lei, HAN Mei-lin, MAO Zhe, WANG Xu-ming(1230)
Examination of Phosphorus Contents and Its Forms in the Surficial Sediments of Polyculture Fish Ponds	HE Lin, JIANG Min, DAI Xi-lin, SHI Shun-chang, LI Shi-kai(1236)
Efficiency of Vermicomposting on Organic-Waste-Mixed Municipal Sludge	CHEN Da-zhi, LIU Shun-hui, LIN Qiu-qi, WU Yan(1244)
Life Cycle Assessment of Environmental Impacts from Finishing Pig Production in Liaoning Province, China	LIU Ming-da, ZHAO Yan, LIU Xian-jun, WANG Yao-jing(1250)
Effect of Bisphenol A on Chlorophyll Fluorescence Parameters of Soybean Seedlings	LI Man, WANG Li-hong, ZHOU Qing(1256)